

Yam Structure and Pilling, by R. Heinrich.
GERMAN, per, Chemiefasern, Vol. 12, 1962, pp 612-
614.
NTC 71-14190-11E

Feb 72

Determination of Flex Tenacity in
Single Fibers with Regard to Pilling
Behavior of Textiles, by K. H. Grunewald.
GERMAN, per, Chemiefasern, Vol 12, No
12, 1962, pp. 853-60.
NTC 69-11545-11C

Sci-Mat
July 69

386,679

Effect of the Cross Sectional Structure of
Synthetic Fibers on the Appearance and
Behavior of the Finished Products. Part I,
by F. Bolland.
GERMAN, per, Chemiefasern, Vol 13, No 1, 1963,
pp 42-45.
NTC-70-12776-11E

Feb 72

Effect of the Cross-Sectional Structure of
Synthetic Fibers on the Appearance and
Behavior of the Finished Products, Part II.
by F. Bolland.
GERMAN, per, Chemiefasern, Vol 13, No 2, 1963,
pp 106-109.
NTC-70-12777-11E

Feb 72

Elastomeric Spinnable Materials, by Theodor Lyssy,
16pp
GERMAN, per, Chemiefasern, Vol 13, 1963, No ~~X~~
10, pp 768-776
SLA TT-64-30945
DB/256/T 1579

Sci - Mat
June 67

327,473

Instrument for Determining the Heat-Shrinking Behaviour
of Synthetic Fibres, by K. Riggert.

GERMAN, per, Chemiefasern, Vol 13, No 11, 1963, pp 60-856 -800
GB/256/ T. 1591

Sci -
Aug 67

335,078

Cargo-Straps From Polyester Yarn, by H. K. Methke.
GERMAN, per, Chemiefasern, Vol 14, No 4, 1964, pp 254-
259.
NTC-71-10476-11E

Nov 71

Sewing Threads Made From Polyester Filaments
and Fibres - Their Properties Uses and
Manufacture, by J. Schurig.
GER MAN, per, Chemiefasern (Nov) 1961, pp 788-
789
GB/39/Fib/R & T 679

Sci -
Aug 67

337-088

<p>Kirchner, K. INDEPENDENT MEASURING AND RECORDING VISCOSIMETER (Selbständig Messendes und registrier- ende Viscosimeter). [1961] [8 foreign text included] 1 ref.</p>	<p>TT-61-20267</p>
<p>Order from SLA \$1.10</p>	<p>TT-61-20267</p>
<p>Trans. of <u>Chemie-Ingenieur-Technik</u> (Germany) 1939 [v. 11] no. 3, p. 525-526.</p>	
<p>DESCRIPTORS: *Viscosimeters, Recording systems</p>	
<p>(Chemistry--Physical, TT, v. 11, no. 3)</p>	
<p>Office of Technical Services</p>	

Calculation of the Degree of Oxidation and Determination of the Oxidation Number of Nitrous Gases in Sulfuric and Nitric Acid Plants, by Franz Perktold, 9 pp.
GERMAN, per, Chemie Ingenieur Technik, Vol XX, 1948, pp 331-332.
Sla TT 64-20870

Sept 66

308,701

62-18424

Metz, L. and Rödfig, A.
CAUSE AND COURSE OF SPONTANEOUS DECOMPO-
SITION OF TRICHLOROETHYLENE BY ALUMINIUM.
4 Oct 50, 6p. (table omitted) 12 refs.
Order from SLA \$1.10 62-18424

I. Metz, L.
II. Rödfig, A.

Trans. of ~~Chemie-Ingenieur-Technik~~ (West Germany)
1949 [v. 21] May, p. 191-193.

DESCRIPTORS: *Vinyl chlorides, *Aluminium, *Chemical reactions, Aluminium alloys, Cleaning fluids, Explosive forming, *Inhibition, Decomposition.

The $AlCl_3$ developed first of all catalyzes the trichloroethylene condensation. The heat liberated produces total de-chlorination of the condensation product and complete oxidation of the aluminium shavings. The use of non-hazardous tetrachlorethylene in the future is suggested. (Author)
(Engineering--Chemical, TT, v. 9, no. 6)

Office of Technical Services

Development of the Muller-Kuhne Process for the
Production of Sulfuric Acid from Gypsum, by Hans
Kuhne, 10 pp.

GERMAN, Chemie-ingenieure Technik, Vol XXI,
No 11/12, 1949, pp 227-229.

S.L.A. Tr No 343/1955

XKM

Sci - Chemistry
Jan 1957 CTS/dex

44,980

NTC

CHEMIE-INGENIEUR-TECHNIK

1949	V21	P413-417	70-22599 (<*)
1949	V21	N13/4 P259-266	70-22606 (<*)
1950	V22	P322-326	70-23487 (<*)
1950	V22	N5 P105-108	70-23719 (<*)
1950	V22	N10 P209-212	70-22603 (<*)
1950	V22	N10 P213-214	70-22601 (<*)
1950	V22	N10 P214-215	70-22602 (<*)
1951	V23	N12 P298-300	70-22605 (<*)
1951	V23	N9/10 P213-222	70-22604 (<*)

On the Theory of Filtration Liquids, by P. D.
Friedel, 8 pp.

GERMAN, per, Chem Ing Tech, No 19/20, pp 382,
383, 1947.

CIA 57-3069

Sci

Aug 58

71.378

(FDD 21101)

The Cause and Progress of the Spontaneous Decomposition
of Trichloroethylene by Means of Aluminum, by
Dr. L. Metz, A. Roedig, 10 pp.

GERMAN, *per*, Chemi Ingenieur Technik, Vol XXI,
No 9/10, 1949, pp 191-193.

20,063

CIA/FDD/U-6008.

EEur - *Germany*
Scientific - Chemistry

Dec 1954 CTS

62-20354

Springer, R.
MODERN ELECTROLYTIC DEPOSITION PROCESSES.
[1962] 15p. (refs. omitted).
Order from SLA \$1.60

I. Springer, R.

62-20354

Trans. of Chemie-Ingenieur-Technik (West Germany)
1949 [v. 21, no. 15/16] p. 298-304.

DESCRIPTORS: *Electroplating, *Electrodeposition,
*Metal coatings, Coatings.

(Metallurgy, TT, v. 9, no. 9)

Office of Technical Services

New Automatic Micro Method for Carbon and
Hydrogen Determination Based on the Micro-
Oxygen Determination, by Dr Josef Unterwiesingler,
8 pp.

GERMAN, per, Chemie Ing Technik, Vol XXII,
1950, pp 39,40.

S.I.A. Tr 800/1956

Sci - Chemistry
Oct 56 OYS

39, 40

Heat Conductivity Determinations With Sodium
and Potassium Ions of Different Concentration
and Temperature, by L. Riedel, 12 pp.

GERMAN, per, Chem Ing Tech, Vol. XXII, 1950,
pp 56-66.

AEC TR 2503

36,568

Sci - Physics

Jul 1956

63-16227

I. Ritter, F.

Ritter, F.
THE PRODUCTION OF PHOSPHORUS AND PHOSPHORIC ACID IN PIESTERITZ. [1963] 17p. (figs. tables omitted) 2 refs.

Order from SLA \$1.60

63-16227

Trans. of Chemie-Ingenieur-Technik (West Germany) 1950, v. 22, no. 12, p. 253-258.

DESCRIPTORS: Production, *Phosphorus, *Phosphoric acids, Chemical industry, Sulfuric acid, Electric furnaces, Chemical engineering.

In Piesteritz there was built a phosphoric-acid installation operating according to the two-stage method. The erected phosphorus furnace house and the phosphoric-acid installation are described; material- and heat-balances of the phosphorus factory, which were completely dismantled by the Russian occupation power in 1954 are presented. (Author)

(Engineering--Chemical, TT, v. 10, no. 4)

Office of Technical Services

Chemistry and Technique of the Acetylene
Pressure Reactions, by Walter Reppe 38pp, PT I,
GERMAN, per, Chemie-Ingenieur-Technik, Vol 22,
1950, No 3/14, pp 273-283
SLA TT-64-20497

Sci - Eng
May 67

327,403

Chemistry and Technique of Acetylene Pressure
Reactions, PT II, by Walter Reppe, 41pp
GERMAN, per, Chemie-Ingenieur-Technik, Vol 22,
1950, No 17, pp 361-373
SIA TT-64-20498

Sci - Eng
May 67

327,404

New Micromethod for Determining the Molecular Weight
of Materials of Low Volatility, by H. Hoyer

GERMANY, Ger., Chem Ing Technik, Vol XXII, 1950,
PP 396-397.

Nat'l Res ~~ENGINEERING~~ Council Canada TT 244
6

Scientific - Engineering
Jul CIB/DEX Price 0.25

16,556

The Development of a Rational Vapor-Pressure
Formula, by R. Plank, 18 pp.

GERMAN, per, Chem Ingenieur-Tech, Vol XXII, No
20, 1950, pp 433-436.

NACA CN-49504

Sci - Chemistry

51,950

Aug 57

Chemistry and Technique of the Acetylene Pressure
Reactions, PT III, Walter Reppe, 24pp
GERMAN, per, Chemie-Ingenieur-Technik, Vol 22,
1950, No 20, pp 437-442
SLA TT-64-20499

Sci - Eng
May 67

327,405

Chemistry and Technique of Acetylene
Pressure Reactions, PT IV, by Walter Reppe,
56pp
GERMAN, per, Chemie-Ingenieur-Technik, Vol 22,
1950, No 23/24, pp 527-539
SLA TT-64-20500

Sci - Eng
May 67

327,406

63-18966

I. Oppelt, W.

Oppelt, Winfried.
REGULATION OF DISTILLATION COLUMNS. [1963]
12p 1ref
Order from SLA \$1.60 63-18966

Trans. of Chem[ie]-Ing[enieur]-Technik (West
Germany) 1951. v. 23, p. 39-41.

DESCRIPTORS: *Distilling plants, Chemical industry,
Material separation, Industrial equipment, *Control,
Design, Towers (Chemistry).

(Engineering--Chemical, TT, v. 10, no. 10)

Office of Technical Services

The Heat Conductivity of Aqueous Solutions of
Strong Electrolytes, by L. Riedel, 22 pp.

GERMAN, per, Chem Ing Tech, Vol XXIII, 1951,
pp 59-64.

WALA N-59503
AEC Tr 2501

Sci - Electricity, Physics

36,574

Jul 1956

Matz, Werner.
CONSTRUCTION OF THE EQUILIBRIUM CURVE OF
TWO-COMPONENT MIXTURES AS A MATHEMATICAL
CURVE, tr. by Bertha P. Klenova. 4 June 51, 15p.
13 refs. TVA 3030.
Order from OTS or SLA \$1.60

62-25796

Trans. of Chem[ie]l[ingenieur] Technik (West
Germany) 1951, v. 23, p. 161-165.

DESCRIPTORS: Mixtures, *Vapor pressure,
*Chemical equilibrium, Numerical analysis,
Differential equations, Graphic analysis, Physical
chemistry.

It is shown, on the basis of the Margules interpolation
equations for the calculation of vapor pressures of
binary mixtures at constant temperature, that generally
the separation factor may be expressed mathematically
as an exponential function. Its exponent is a function of
(Chemistry--Physical, TT, v. 9, no. 9) (over)

62-25796

I. Title: Duhem-Margules
equation

I. Matz, W.

II. TVA-3030

III. Tennessee Valley
Authority, Wilson
Dam, Ala.

IV. 60-23274, canceled

10-23-63

Office of Technical Services

A Few Approximate Formulas for Adjusting Regulators, by
Dr Ing. Winfried Oppelt, 16 pp. UNCLASSIFIED

Full translation.

GERMAN, no par, Chemie Ingenieur Technik, No 8, 1951,
pp 190-193.

ARC F-78-774-DE

Scientific - Engineering

62-25797

Barth, W.
PRESSURE DROP IN PACKED TOWERS WITH AND
WITHOUT LIQUID FLOW, tr. by Bertha P. Klenova.
28 Nov 51, 13p. 11 refs. TVA 3065.
Order from OTS or SLA \$1.60 62-25797

Trans. of Chem[ic]-Eng[ineering] Technik (West
Germany) 1951, v. 23, p. 289-293.

DESCRIPTORS: *Towers. *Packing materials.
*Pressure, Reduction, Fluid flow.

The equations derived for the pressure drop are of
greatest general validity and can be applied not only to
various sizes of all possible packing materials but also
to the most varied mixtures of solid and loose packing.
The conditions generally occurring in practice may be
divided into two groups, towers in which rounded-off
and sharp-edged packings are used and which have
approximately the same friction factors. A sufficiently
(Engineering--Chemical, TT, v. 9, no. 9) (over)

- I. Barth, W.
- II. TVA-3065
- III. Tennessee Valley
Authority, Wilson Dam,
Ala.
- IV. 60-23287, canceled

10-23-62
Office of Technical Services

New Thermal Conductivity Measurements of Organic &
Liquids, by L. Riedel, 18 pp. UNCLASSIFIED

GERMAN, DEX, Chem Ing Tech, Vol XKIII, 1951,
pp 321-324.

54A TT-...-14728
AEC Tr 1822

Scientific - Chemistry April 54 CTS/DEX

11,808

Fully Automatic Equipment for Colorimetric
Analysis, by Hans Fuhrmann, 10 pp.

GERMAN, per, Chem Ing Tech, ^{Vol. XXVI} ~~Ed 25~~, 1951,
pp 401-404.

~~REF-61-~~
AEC Ser No 1993

Scientific - Engineering, ~~Chemical~~
Feb 55 CTS

2, 230

Thermal Conductivity Measurements on Mixtures
of Various Organic Compounds With Water, by
L. Riedel, 14 pp.

GERMAN, par, Chemie Ingenieur Technik, Vol XXIII,
No 19, 1951, pp 465-469. 9687184

DDC RSIC-40

Sci - Chem
Oct 63

~~Enthalpy Concentration Diagram of the System Water-Sulfuric Acid-Sulfur Trioxide~~
Enthalpy Concentration Diagram of the System Water-Sulfuric Acid-Sulfur Trioxide, by B. O. A. Hedstrom, E. Tjus, 7 pp.

GERMAN, per, Chem Ing Tech, Vol XXIV, No 1, 1952, pp 22-25.

ATS

Sci

95,096

Aug 59

Flow Forms and Heat Transfer in Air-Fluidized
Beds of Loose Material, by E. Wicke, K. Hedden,
34 pp.

GERMAN, per, Chem Ing Tech, Vol XXIV, 1952,
pp 82-91.

SIA Tr 2230

Sci - Physics

50,609

Aug 57

Some Information Concerning the Winkler Patents
and Their Influence on the Former German Patent
Office, by W. Hubbuch, 4 pp.

GERMAN, per, Chem Ing Tech, Vol. XXIV, No 2, 1952,
pp 92.

SLA Tr 1953

Sci - Fuels
Jul 57

50,016

Industrial and Economic Prospects of Carbon Monoxide
Hydrogenation, by Heinrich Trumm

GERMAN, per, Chemie-Ingenieur-Technik, 1952, pp 237-247.

S.L.A. Tr Pool

Scientific - Fuels
CTS/DEX

14,410

Rheology and Chemical Engineering, by W. Meskat,
31 pp.

Full translation.

GERMAN, per, Chemo-ingenieur-technik, Vol XXIV,
No 6, 1952, pp 333-338.

S.L.A.

Scientific - Electricity

Scientific - Chemistry

Jul 55

27,072

On the Gas Formation in Gas Producers, by Franz
Sabel

German

~~FRENCH~~, *par*, Chemie-Ingenieur-Technik, No 6, 1952,
pp 339-347.

S.L.A. Tr Pool

Scientific - Chemistry
CTS/DEX

14,321

2

MC

CHEMIE-INGENIEUR-TECHNIK

1952 V24 N9 P42-493	70-23671 (<*)
1953 V25 P46	70-23748 (<*)
1953 V25 P73-80	70-23744 (<*)
1953 V25 P133-136	70-23498 (<*)
1953 V25 N2 P95	70-23750 (<*)
1953 V25 N3 P125-133	70-23279 (<*)
1953 V25 N3 P144-148	70-23410 (<*)
1953 V25 N12 P717-720	70-11183-07A (<*)
1957 V29 N12 P401-413	70-11590-20M (<*)
1961 V33 N4 P479-484	70-10520-07A (<*)
1962 V34 P561-563	70-21016 (<*)
1964 V36 N3 P283-290	69W1180 <ATS>
1964 V36 N4 P941-947	70-20508 (<*)

The Development of the Calcium Cyanamide
Process, Albert R. Frank on his 80th Birthday,
by K. Zieske, 9 pp.

GERMAN, per, Chemie Ingenieur Technik, Vol XXIV,
1952, pp 609, 610.

S.L.A. Tr 1189/1956

EE - Germany
Economic
Sci - Chemistry
Oct 56 CTB

40,086

Practical Experience With Pipe Lines in Chemical
Installations, by K. Engler

GERMAN, per, Chem Ing Tech, Vol XXV, No 1, 1953,
pp 23-26.

TPA3/TLB T. 4153

Scientific - Chemistry
CTS/DEX

8190

Noble Metal Alloys with Special Resistance
To Strong Mineral Acid, by Johannes Schatz,
22pp
GERMAN, per, Chemie-Ingenieur-Technik, Vol 25,
1953, No 2, pp 61-65
SIA TT-64-20496

Sci - Meta
June 67

327,547

Mixing of the Flowing Medium in Liquid
Fluidized Beds, by E. Wicke, H.
Trawinski, 22 pp.

GERMAN, par, Chemie Ingenieur Technik,
Vol VVK, No 3, 1953, pp 114-124.

ATS-14M40G

Sci
Mar 62
Vol IV, No 2

188, 857

Continuation of Soft Materials in Food Preparation,
by Werner Hialki, 8 p.

GERMAN, per, Chem-Ing-Technik, 1953, Vol XXV, No 3,
pp 137-141.

SLA 60-10370

Sci
Apr 60
Vol XII, No 3

112, 147

Obtention en Continu de Composes Pura de Cerium
au Moyen D'Une Colonne D'Extraction a Contre-
Courant, (Continuous Preparation of Pure Cerium
Compounds by Use of a Counter-Current Extraction
Column), by R. Bock, K. H. Meyer, 10 pp.

GERMAN to FRENCH, per, Chem Ingr Tech^c, Vol III,
1953, pp 141-142.

Reverse trans
CEA tr-A-343

Sci - Chem
Feb 60

The "Reversible" Adsorption as a Device for the Preliminary Purification and Separation of Gas Mixtures, by Dr Ing Heinrich Kahle, 25 pp.

Full translation.

GERMAN, per, Chemie Ingenieur Technik, Vol XXIV, No 3, 1953, pp 144-148.

CIA/FDD/X-951

Scientific - Chemistry

3666

Elutriation of Fines From Fluidized Systems and its
Relation to the Viscosity of the bed, by H.
Trawinski, 9 pp.

GERMAN, per, Chem. Ing. Tech., Vol 25, 1953,
pp 201-203.

SLA TR 57-2056

Sci

65,774

Effective flow Resistance and Heterogeneity of Fluidized Beds, by H. Trawinski, 22 pp.

GERMAN, per, Chemie Ingenieur Technik, Vol XXV, No 5, 1953, pp 229-237.

ATS-15040G

ATS-830-6-J

Sci
Mar 62
Vol IV, No 2

188, 855

(FDD 22454)

Heat Transfer and Pressure Drop in Starting Area
of Air-Passed Slots, by Von A. Raesfeld, 17 pp.

GERMAN, photostat, Chemie-Ingenieur-Technik,
Vol XXV, No 5, Weinheim, 1953, pp 249-252.

CIA/FDD/U-6777

EEur - Germany

Sci - Misc, heat transfer

21,329

CTB 63/Dec 54

Thermodynamic and Heat Dissipation Problems in
Synthesis Reactions With Special Regard to Hydro-
carbon Synthesis According to Fischer-Tropsch, by
I. O. Dorschner, 19 pp.

GERMAN, per, Chem. Ing. Tech., Vol XXV, May 1953,
pp 277-285.

SLA Tr 57-1788

Sci

Run 58

65,900

General Theoretical Considerations on the
Progress of Chemical Reactions... (Thermo-
dynamische und Wärmeableitungs Probleme
bei Synthese-Reaktionen), by O. Dorschner
GERMAN, per Chemie-Ingr. Tech. Vol. 25,
No. 6, 1953, pp 277-285
GFC

Sci -
Aug 67

037-953

(100 00007)

Deposition of Finely-Divided Selenium on the Surface
of Graphite, by H. Kumpf, 44 pp.

GERMAN, Integ per, Chemis-Biological-Journal, Vol XXV,
No 6, 1953, pp 317-327.

CIA/FOI U. S. 101

38,817

ESur - Germany

Sci - Engineering; process engineering

Aug 30 CCH/DEE

The Cyclone as a Drop Separator, by A. J. Linden,
10 pp.

GERMAN, per, Chemie-Ing Techn, Vol XXV, No 6, 1953,
pp 328-330.

NIH 9-44

Scientific - ~~Medicine~~
Nov 56 CTS

Chemistry

40,398

The Hydrocyclone as an Auxiliary Apparatus for the Refinement of Raw Materials, by H. Trawinski, 27 pp.

GERMAN, per, ~~Chem.-Ing. Technik~~, Vol XXV, No 6, 1953, pp 331-341.

A.E.R.E. Harwell
Tr 605

Sci - Engineering

37,101

Aug 1956

Computing Devices for the Solution of Problems
in Chemical Engineering Technology, by Otto Fuchs,
40 pp.

GERMAN, per, Chem Ing Tech, Vol XXV, 1953,
pp 377-385.

AEC Tr 2101

Scientific - Engineering

CTS 67/Apr 55

23,008

Production of Granules (pelletizing) From
Dusts and Small-Particle-Size Materials,
by H. F. Reich.

GERMAN, per, ~~Chemie-Ingenieur-Technik~~, Vol
XXV, 1953, No 8/9, pp 437-441.

Henry Brucher Tr 3638

Sci - Chemistry, Engineering

34,905

May 1956

\$-6.90

Heat Transfer on Evaporation. L. C. Goodwin,
1953

GERMAN, por, Chem. Ing. Tech, ~~Vol~~ Vol XXV,, 1953,
pp 477-480.

AEC Tr No 2063

Scientific - Physics, Chemistry Feb 55 CTS

21, 235

Behavior of Steels Exposed to Hydrogen Under High Pressure. Part I of paper entitled "Constructional Materials for High-Pressure Syntheses", by O. van Rossum.
UNCLASSIFIED.

~~BRUCH~~, per, ~~Chemie-Ingenieur-Technik~~, Vol XXV, Nos 8, 9, 1953, pp 481-484.

Brutcher Tr No 3254

Scientific - Min/Metals

17,366

Questions on Industrial Material in High Pressure
Synthesis, by O. Van Rossum, 16 pp. UNCLASSIFIED.

GERMAN, per, Chemie Ingenieur Technik, Vol XXV,
1953, pp 481-487.

CIA/FDD/X-1479

Scientific - Chemistry

13,644

<p>Haken, H. V. CALCIUM CARBIDE: A KEY PRODUCT OF THE CHEMICAL INDUSTRY. 27 Oct 53, 8p. 1 ref. Order from SLA \$1.10 62-20185</p>	<p>62-20185</p>
<p><u>Trans. of Chemie-Ing[enieur]-Techn[ik] (West Germany) 1953, v. 25, no. 8/9, p. 534-536.</u></p>	<p>I. Haken, H. V. II. Title: Key ...</p>
<p>DESCRIPTORS: *Calcium compounds, *Carbides, Chemical industry, Manufacturing methods.</p>	
<p>(Engineering--Chemical, TT, v. 9, no. 8)</p>	<p>Office of Technical Services</p>

Performance of Thin-Layer Evaporations with
Compulsorily Developed Films, by
W. Hauschild.
GERMAN, per, Chemie Ingeniuer Technik,
Vol 25, No 10, 1953, pp 573-574.
NTC 69-12561-07A

Sci-Chem
Aug 69

388,516

The Twin Nozzle in Spray Drying, by E. Truck, ²
14 pp.

GERMAN, per, Chem Ing Techn, Vol XXV, No 10,
1953, pp 620-622.

SLA 3245

Sci

71,577

Aug 58

Kauter, C. T. and Leitenberger, W.
PLANT SCALE PRODUCTION OF HYDROGEN
CYANIDE ACCORDING TO ANDRUSSOW. [1962] 13p.
7 refs.
Order from SLA \$1.60 62-20044

Trans. of Chemie-Ing[enieur]-Techn[ik] (West
Germany) 1953, v. 25, no. 12, p. 697-701.

DESCRIPTORS: *Hydrocyanic acid, Industrial pro-
duction, Methanes, Ammonia, Air, Purification,
Chemical reactions, *Towers (Chemistry), *Platinum
catalysts, Rhodium alloys, Natural gas.

This is a description of a large industrial plant for the
synthesis of hydrogen cyanide from methane, ammonia
and air. The raw materials are liquid ammonia and
so-called Ruhr pipe-line gas, which was mixed with
water-gas and converted in methane. The plant
(Engineering--Chemical, T, v. 9, no. 12) (over)

62-20044

- I. Title: Andrussov process
- I. Kauter, C. T.
- II. Leitenberger, W.

TT-54-20886

Office of Technical Services

Acetone Content of the Gaseous Phase Over Saturated
Acetylene-Aceton Solutions, by H. P. Kolesman,
I. R. Hasselman, 9 pp.

VI 771 7.17
GERMAN, per, Chem. Ing. Tech., Vol. ~~VII~~, 1953, pp
735-737.

SLA #: 57-2003

Sci

Jun 58

68,886

A New Universal Vapor-Pressure & Formula.
Studies of Extension of Theorem of Corresponding
States, by L. Riedel, 24 pp.

GERMAN, per, Chem Ing Tech, Vol XXVI, No 2,
1954, pp 83-89.

SIA Tr 2034

SLA-TT-44 14672

49,936

Sci - Chem
Jul 57

The Transmission of Gases and Vapours
Through Paper, by W. Vollmer, 8 pp.

GERMAN, per, Chem Ing Tech, No 2, 1954,
pp 90-94.

7
SLA Tr 57-1842

Sci

Jul 58

67,955

TT-64-14410

I. Oehley, E.

SLA E 1023/1956

Oehley, E.
GAS IGNITION POINT AND DROP IGNITION POINT.
[1963] 12p (figs tables omitted) 10refs
Order from SLA \$1.60 TT-64-14410

Trans. of Chem[ie]-[ng[enteur]-Tech[nik]
(West Germany) 1954, v. 26, no. 2, p. 97-100.
(Abstract available)
Another trans. is available from SLA as no. 1823

DESCRIPTORS: *Ignition, *Autoignition, Combustion,
Liquids, Gases, Organic compounds, Vapors,
Safety, *Accidents.

Besides the temperature which determines the
autoignition of gases and vapors, the "gas ignition
point", many combustible chemical substances also
exhibit still another, usually much lower, "drop
ignition point", at which the liquid phase of the
substance in question ignites upon impingement on a
(Engineering--Safety, TT, v. 11, no. 11) (over)

Office of Technical Services

Valuation of Mixers With the Help of Statistic
Methods, by K. Stange.

GERMAN, per, Chem Ing Tech, No 26, 1954, pp
150-155.

INSDOC-T1885

Sci
Apr 59

84,904

Centrifuges. Separating Devices With Maximal Separating Action, by H. Trawinski, 61 pp.

GERMAN, per, Chemie-Ingenieur Technik, Vol XXVI, 1954, pp 189-201.

S.L.A. Tr I-741/1955

TI-64-10412

Sci - Engineering
Apr 1957 CTS/dex

50,331

Manufacture of Acetylene by Incomplete Combustion
of Hydrocarbons With Oxygen, by H. Sachse, 28 pp.

GERMAN, per, Chem - Ing Tech, Vol XXVI, No 5, May 1954,
pp 245-253.

SIA 2826

59,760

Sci - Chemistry
Mar 58

Problems of Large-Scale Industrial Plants for Production
of Acetylene by the Oxygen Process, by E. Bartholome,
19 pp.

GERMAN, per, Chem - Ing Tech. Vol XXVI, No 5, May 1954,
pp 253-258.

SLA Tr 2829

Sci - Chemistry
Feb 58

57,512

Liquid Density in a State of Saturation. Investiga-
tion on an Expansion of the Theorem of Consistent
Conditions. Part II, by L. Riedel, 24 pp.

~~FRASCH~~, per, Chemie Ing Techn, Vol XXVI, No 5,
1954, pp 259-264.

S.L.A. Tr No 536/1955

S L A 536/1955

45, 880

Sci. Chemistry
Mar 1957 CTS/dex

Heat Transfer in Fluidized Beds, by E. Wicke, F. Petting,
33 pp.

GERMAN, per, Chem Ing Tech, Vol XXVI, 1954, pp 301-309.

SLA Tr 3034

Sci - Electronics
Feb 58

59,551

Atomization of Liquids, by H. A. Troesch.

GERMAN, per, Chemie-Ing-Techn, Vol XXVI, No 6,
1954, pp 311-320.

T.I.L. P. 4546

Sci - Chemistry

35,708

Jun 1956

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The Degree of Mixing in a Random Mixture as the Basis for Evaluating Mixing Experiments, by K. Stangs, 37 p.

GERMAN, part, Chem-Ing-Tech, 1954, Vol XXVI, No 6, pp 331-337.

Sci
Mar 60
Vol 2, No 11.

ATT-65-10223
BLA 59-20132

AEC 1674
AEC 72-119

109,576

Remarks on the Pre-Examination of American Patent Applications, by K. Michaelis, 7 pp.

GERMAN, per, Chem Ing Tech, 1954, Vol XXVI, p 421.

SLA 57-1783

Sci

May 58

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Gas Bubbles in Liquids, by W. Siemes,
74 pp.

GERMAN, per, Chemie Ingenieur Technik, Vol XXVI,
1954, pp 479-496.

CIA/Z-257

Sci - Physics
Mar 57 CTS/dex

45,079

Bascodur: Construction Material For Chemical
Technology, by Werner Kunzer, Karl Vogel, 18pp
GERMAN, per, Chemie-Ing Technik, Vol 26, 1954, No 10
pp 555-561
SLA TT-64-20492

Sci - Mat
June 67

327,493

The Use of Electro-Graphite and Hard-Burned
Coal in the Construction of Chemical Apparatus,
3 pp.

GERMAN, per, Chem Ing Tech, Vol XXVI, No 10,
1954, p 572.

SLA Tr 57-789

Sci - Chemistry, Fuels 53,311

Sep 57

Siemes, W.

THE RISE OF GAS BUBBLES IN LIQUIDS. Pt. 2 of
Gas Bubbles in Liquids. [1961] [45]p. 57 refs.
Order from SLA \$4.60 62-10230

Trans. of Chemie-Ingenieur-Technik (West Germany)
1954, v. 26, no. 11, p. 614-630.

DESCRIPTORS: *Liquids, Gases, *Bubbles, Growth,
Pressure, Hydrostatic pressure, Hydrodynamics,
Velocity, Vibration, Mathematical analysis.

(Chemistry--Physical, TT, v. 7, no. 9)

62-10230

I. Siemes, W.
II. Title: Gas ...

Office of Technical Services

Nassenstein, H.
AUTOMATIC COUNTING AND SIZING OF MICRO-
SCOPIC PARTICLES. [1961] 29p. (4 figs. omitted)
30 refs.
Order from SIA \$2.60 62-14037

Trans. of Chemie-Ingenieur-Technik (West
Germany) 1954, v. 26, p. 661-667.

DESCRIPTORS: *Particles, *Counting methods,
Automatic, Aerosols, Instrumentation, Determination.

(Nuclear Physics--Particles, TT, v. 8, no. 2)

62-14037

I. Nassenstein, H.

Office of Technical Services

by C. Telle,
An Improved Photosensitizer, 6 pp.

TECHNICAL, par, Chem Eng Tech, Vol XLVI, 1954,
pp 684-686.

ABC Tr 3582

Bel - Phys

Apr 59

85, 745

62-22696

Rusberg, Ernst.
PRODUCTION OF POTASSIUM FERTILIZER SALTS
FROM CRUDE SALTS BY FLOTATION. [1962] 18p.
Order from K-H \$22.50 K-H 3424-b

Trans. of Chemie-Ingenieur-Technik (West Germany)
1955, v. 27, no. 1, p. 1-4.

DESCRIPTORS: Potassium, Fertilizers, *Salts, Pro-
duction, Flotation.

(Engineering--Chemical. TT. v. 8, no. 11)

- I. Rusberg, E.
- II. K-H-3424-b
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Hydrocyclones in Ore Dressing, by H. Traviniski, 18 pp

GERMAN, per, Chem Ing Tech, Vol XXVII, No 1, 1955,
p 13-17.

~~ATA~~ HLA 59-10640

Sci - Engr
Vol 2, No 1.

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TT-64-14908

Benzler, H. and Koch, A. v.
DIAGRAM OF STATE FOR ETHYLENE UP TO
10,000 (METRIC) ATMOSPHERES PRESSURE. [1964]
14p 8refs
Order from SLA \$1.60 TT-64-14908

I. Benzler, H.
H. Koch, A. v.

Trans. of Chemie-Ing[enieur]-Techn[ik] (West
Germany) 1955, v. 27, no. 2, p. 71-75.
Another trans. is available from K-H \$17.50 as
K-H-3485-a [1962] 14p.

NASA TT-F-8221

K-H 3485A

(Chemistry--Physical, TT, v. 11, no. 11)

Office of Technical Services

62-20072

Krupp, H.
MAGNETIC OXYGEN DETERMINATION USING A
HOT WIRE ARRANGEMENT. [1962] [23]p. 11 refs.
Order from SLA \$2.60 62-20072

I. Krupp, H.

Trans. of Chemie-Ing[enieur]-Techn[ik] (West
Germany) 1955, v. 27, no. 2, p. 79-83.

DESCRIPTORS: *Wire, *Connection, Chemical
analysis, *Oxygen, Magnetic fields, Magnetic prop-
erties, *Gas analysis.

(Engineering--Chemical, TT, v. 10, no. 11)

Office of Technical Services

Investigations of Tube Bundle Heat Exchangers,
by W. Linke, by 12 pp.

GERMAN, per, Chem -Ing -Tech, Vol XXVII, No 3,
1955, pp 1942-1948.

Assoc Tech Sv 83H10G

Sci
Aug 58

70, 762

The State of the Development and Application
of Hydrocyclones, by F. J. Fontein, 10 pp.

7/11/77
DZGK, par, Chemie Ingenieur-Technik, Vol
XVII, No 4, Apr 1955, pp 190-192.

A.E.R.E. Harwell Tr No 617

Sci - Geophysics, cyclones, dust removal

May 1956

33,871

Riedel, L.
COMPRESSIBILITY, SURFACE TENSION AND THER-
MAL CONDUCTIVITY IN THE LIQUID STATE.
[1963] 23p

Order from K-H \$23.00

K-H 3663

Trans. of Chemie-Ingenieur-Technik (West Germany)
1955, v. 27, no. 4, p. 209-213.

DESCRIPTORS: *Liquids, *Compressive properties,
*Surface tension, *Thermal conductivity.

(Engineering--Chemical, TT, v. 10, no. 10)

63-22482

I. Riedel, L.
II. K-H-3663
III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

TT-61-16119

Office of Technical Services

Problems of Continuous Processes in the Consumer Goods Industry, by K. Rless.

GERMAN, per, Chem Ing Tech, Vol XXVII, Aug-Sep 1955, pp 457-464.

ASLI3-GB121

Sci

Aug 58

71,605

62-20129

I. Schulte-Vieting, H. -J.

Schulte-Vieting, H. -J.
THE HEAT AND MATERIAL TRANSFER BETWEEN
VAPOR BUBBLE AND LIQUID IN OXYGEN/NITROGEN
MIXTURES (Der Wärme- und Stoffaustausch zwischen
Dampfblase und Flüssigkeit in Sauerstoff/Stickstoff-
Gemischen). [1962] [20]p. 27 refs.
Order from S.I.A \$1.60 62-20129

Trans. of Chem[ist]-Eng[ineer]-Techn[ic] (West
Germany) 1955, v. 27, no. 8/9, p. 507-512.

DESCRIPTORS: *Liquefied gases, Mixtures, *Oxygen,
*Nitrogen, Purification, Distillation, Rectifiers,
Towers (Chemistry), *Heat transfer, *Mass transfer,
Vapors, *Bubbles, Geometry, Dynamics, Velocity.

(Engineering--Chemical, TT, v. 9, no. 12)

Office of Technical Services

Automatic Particle Size Analysis of Dis-
persed Systems by Photoelectric Scanning,
Part I, by H. Rassenstein.

GERMAN, post, Chemie-Ingenieur-Technik,
Vol XXVII, No 8/9, 1955, pp 535-542.

CSIRO

Sci - Engr

192, 314

Apr 62

62-18249

Saechtling, Hansjürgen.

POLYVINYLCHLORIDE AND POLYETHYLENE: THE MOST IMPORTANT CORROSION-RESISTANT PLASTICS (Polyvinylchlorid und Polyäthylen: Die Wichtigsten Korrosionsbeständigen Kunststoffe). [1962] [9]p. (foreign text included) 7 refs.

Order from SLA \$1.10

62-18249

Trans. of Chemie-Ingenieur-Technik (West Germany) 1955, v. 27, no. 10, p. 602-604.

DESCRIPTORS: *Polyvinyl chloride, *Polyethylene plastics, Plastics, *Corrosion inhibition, Physical properties, Chemical properties.

Polyvinylchloride and polyethylene represent very valuable materials for the chemical industry and also for the construction of pipe-lines because of the chemical resistance of these plastics and the favorable possibilities (Materials--Plastics, IT, v. 9, no. 6) (over)

I. Saechtling, H.
II. Title: Most ...

Office of Technical Services

Linde, G.
EFFICIENCY GRADE OF A SIEVE TRAY IN THE
TEMPERATURE RANGE OF LIQUID AIR (Wirkungs-
grad eines Siebbodens in Temperaturgebiet des
Flüssigen Luft). [1962] [24]p. 16 refs.
Order from SLA \$2.60 62-20130

Trans. of Chem[ic]-Ing[enieur]-Techn[ik] (West
Germany) 1955, v. 27, no. 11, p. 661-668.

DESCRIPTORS: *Liquefied gases, Mixtures, *Oxygen,
*Nitrogen, *Argon, *Separation, Rectifiers, Strainers,
*Towers (Chemistry), Vapor pressure, Foams, Low
temperature research.

On a single experimental tray which had been designed
in such a manner that the intermixing of the liquid was
greatly promoted, the transfer ratio (gain ratio), pres-
sure drop of the vapor, and the height of the foam or
(Engineering--Chemical, TT, v. 9, no. 12) (over)

62-20130

1. Title: Sieve plates
1. Linde, G.

Office of Technical Services

Intermittent Measurement of the Heat Transmission
of Rasbig Ring Packings, by H. Glaser.

GERMAN, per, Chem Ing Tech, Vol XXVII, No 11,
1955, pp 637-692.

ASLIB-GB39

Sci - Chem

Jun 59

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